



SEQUENCE LISTING

<110> BARCLAY, A. Neil
BROWN, Marion H.
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LANIER, Lewis L.
WRIGHT, Gavin J.
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SEDGWICK, Jonathan D.

<120> OX2 RECEPTOR HOMOLOGS (AS AMENDED)

<130> 140942000900

<140> US 10/009,445

<141> 2001-11-13

<150> PCT US00/12998

<151> 2000-05-11

<150> GB 9925989.7

<151> 1999-11-03

<150> GB 9911123.9

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<222> (162)..(1071)

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cac gta gca gta ctc ttg atc tgg ggg gtc ttc gcg gct gag tca agt 162
His Val Ala Val Leu Leu Ile Trp Gly Val Phe Ala Ala Glu Ser Ser
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Cys 1	Pro	Asp	Lys	Asn 5	Gln	Thr	Met	Gln	Asn 10	Asn	Ser	Ser	Thr	Met 15	Thr		
gaa	gtt	aac	act	aca	gtg	ttt	gta	cag	atg	ggg	aaa	aag	gct	ctg	ctc		258
Glu	Val	Asn	Thr	Thr	Val	Phe	Val	Gln	Met	Gly	Lys	Lys	Ala	Leu	Leu		
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tgc	tgc	cct	tct	att	tca	ctg	aca	aaa	gta	ata	tta	ata	aca	tgg	aca		306
Cys	Cys	Pro	Ser	Ile	Ser	Leu	Thr	Lys	Val	Ile	Leu	Ile	Thr	Trp	Thr		
		35					40					45					
ata	acc	ctc	aga	gga	cag	cct	tcc	tgc	ata	ata	tcc	tac	aaa	gca	gac		354
Ile	Thr	Leu	Arg	Gly	Gln	Pro	Ser	Cys	Ile	Ile	Ser	Tyr	Lys	Ala	Asp		
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aca	agg	gag	acc	cat	gaa	agc	aac	tgc	tcg	gac	aga	agc	atc	acc	tgg		402
Thr	Arg	Glu	Thr	His	Glu	Ser	Asn	Cys	Ser	Asp	Arg	Ser	Ile	Thr	Trp		
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gcc	tcc	aca	cct	gac	ctc	gct	cct	gac	ctt	cag	atc	agt	gca	gtg	gcc		450
Ala	Ser	Thr	Pro	Asp	Leu	Ala	Pro	Asp	Leu	Gln	Ile	Ser	Ala	Val	Ala		
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ctc	cag	cat	gaa	ggg	cgt	tac	tca	tgt	gat	ata	gca	gta	cct	gac	ggg		498
Leu	Gln	His	Glu	Gly	Arg	Tyr	Ser	Cys	Asp	Ile	Ala	Val	Pro	Asp	Gly		
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Asn	Phe	Gln	Asn	Ile	Tyr	Asp	Leu	Gln	Val	Leu	Val	Pro	Pro	Glu	Val		
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Gly	Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Thr	Pro	Asp	Gly	Asp	Cys	Val		
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Ala	Lys	Asn	Glu	Ser	His	Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr		
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tgc	cac	tgg	gag	cag	agc	cac	gtg	tct	gtc	gtg	ttc	tgt	gtt	gtc	tct		738
Cys	His	Trp	Glu	Gln	Ser	His	Val	Ser	Val	Val	Phe	Cys	Val	Val	Ser		
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His	Leu	Thr	Thr	Gly	Asn	Gln	Ser	Leu	Ser	Ile	Glu	Leu	Gly	Arg	Gly		
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Ile	Ile	Leu	Ile	Ile	Ile	Gly	Cys	Ile	Cys	Leu	Leu	Lys	Ile	Ser	Gly		
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Cys	Arg	Lys	Cys	Lys	Leu	Pro	Lys	Ser	Gly	Ala	Thr	Pro	Asp	Ile	Glu		
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 Leu Tyr Asp Thr Val Thr Thr Thr Glu Ala His Pro Ala Ser Gln Gly
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 Lys Val Asn Gly Thr Asp Cys Leu Thr Leu Ser Ala Met Gly Ile
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 25 30 35 40
 Lys Val Ile Leu Ile Thr Trp Thr Ile Thr Leu Arg Gly Gln Pro Ser
 45 50 55
 Cys Ile Ile Ser Tyr Lys Ala Asp Thr Arg Glu Thr His Glu Ser Asn
 60 65 70
 Cys Ser Asp Arg Ser Ile Thr Trp Ala Ser Thr Pro Asp Leu Ala Pro
 75 80 85
 Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Arg Tyr Ser
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 Cys Asp Ile Ala Val Pro Asp Gly Asn Phe Gln Asn Ile Tyr Asp Leu
 105 110 115 120

Gln Val Leu Val Pro Pro Glu Val Thr His Phe Pro Gly Glu Asn Arg
 125 130 135
 Thr Ala Val Cys Glu Ala Ile Ala Gly Lys Pro Ala Ala Gln Ile Ser
 140 145 150
 Trp Thr Pro Asp Gly Asp Cys Val Ala Lys Asn Glu Ser His Ser Asn
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 Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Ser His Val
 170 175 180
 Ser Val Val Phe Cys Val Val Ser His Leu Thr Thr Gly Asn Gln Ser
 185 190 195 200
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 Ile Gln Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys
 220 225 230
 Ile Cys Leu Leu Lys Ile Ser Gly Cys Arg Lys Cys Lys Leu Pro Lys
 235 240 245
 Ser Gly Ala Thr Pro Asp Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala
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 Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Thr Thr
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 aagttgacca gagaggggtct caccatgcgc acagttcctt ctgtaccagt gtggaggaaa 180
 agtactgagt gaagggcaga aaaagagaaa acagaa atg ctc tgc cct tgg aga 234
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Ser Lys Glu Asn His Ala Leu Ala Ser Ser Ser Leu Cys Met Asp Glu	
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aaa cag att aca cag aac tac tcg aaa gta ctc gca gaa gtt aac act	426
Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val Leu Ala Glu Val Asn Thr	
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tca tgg cct gta aag atg gct aca aat gct gtg ctt tgt tgc cct cct	474
Ser Trp Pro Val Lys Met Ala Thr Asn Ala Val Leu Cys Cys Pro Pro	
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atc gca tta aga aat ttg atc ata ata aca tgg gaa ata atc ctg aga	522
Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg	
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ggc cag cct tcc tgc aca aaa gcc tac aag aaa gaa aca aat gag acc	570
Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr	
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aag gaa acc aac tgt act gat gag aga ata acc tgg gtc tcc aga cct	618
Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile Thr Trp Val Ser Arg Pro	
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Asp Gln Asn Ser Asp Leu Gln Ile Arg Thr Val Ala Ile Thr His Asp	
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Gly Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Thr Leu Phe Gln	
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Asn Arg Asn Arg Thr Ala Val Cys Lys Ala Val Ala Gly Lys Pro Ala	
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gcg cat atc tcc tgg atc cca gag ggc gat tgt gcc act aag caa gaa	858
Ala His Ile Ser Trp Ile Pro Glu Gly Asp Cys Ala Thr Lys Gln Glu	
175 180 185	
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Tyr Trp Ser Asn Gly Thr Val Thr Val Lys Ser Thr Cys His Trp Glu	
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gtc cac aat gtg tct acc gtg acc tgc cac gtc tcc cat ttg act ggc	954
Val His Asn Val Ser Thr Val Thr Cys His Val Ser His Leu Thr Gly	
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225 230 235	

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 Ile Ser Lys Ile Ile Tyr Ser Ile Tyr His Pro Tyr Tyr Tyr Tyr Leu
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Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala
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Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr
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Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys
 75 80 85

Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile
 90 95 100

Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Thr
 105 110 115

Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro

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125

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Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro
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Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala
 155 160 165

Val Ala Gly Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp
 170 175 180

Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys
 185 190 195

Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His
 200 205 210

Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro
 215 220 225 230

Val Pro Gly Ala Lys Lys Ile Ser Lys Ile Ile Tyr Ser Ile Tyr His
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Ser Gln Trp Leu Gln Lys Ile
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gtg tct gta cag ata ggt aca aag gct ctg ctc tgc tgc ttt tct att 195
 Val Ser Val Gln Ile Gly Thr Lys Ala Leu Leu Cys Cys Phe Ser Ile
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cca ctg aca aaa gca gta tta atc aca tgg ata ata aag ctc aga ggc	243
Pro Leu Thr Lys Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly	
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ctg cca tcc tgc aca ata gca tac aaa gta gat aca aag acc aat gaa	291
Leu Pro Ser Cys Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn Glu	
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acc agc tgc ttg ggc agg aac atc acc tgg gcc tcc aca cct gac cac	339
Thr Ser Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His	
70 75 80 85	
agt cct gaa ctt cag atc agt gca gtg acc ctc cag cat gag ggg act	387
Ser Pro Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly Thr	
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Tyr Thr Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn Tyr	
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Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Glu Lys	
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Asn Arg Ser Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln	
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Ile Ser Trp Ser Pro Asp Gly Asp Cys Val Thr Thr Ser Glu Ser His	
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Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn	
170 175 180	
aat gtg tct gat gtg tcc tgc att gtc tct cat ttg act ggt aac caa	675
Asn Val Ser Asp Val Ser Cys Ile Val Ser His Leu Thr Gly Asn Gln	
185 190 195	
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Ser Leu Ser Ile Glu Leu Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro	
200 205 210	
tat att cca tac atc ata cca tca att atc att ttg atc atc ata gga	771
Tyr Ile Pro Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly	
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Cys Ile Cys Leu Leu Lys Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro	
230 235 240 245	
aaa tta gaa gct act tca gct att gag gag gat gaa atg cag cct tat	867
Lys Leu Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr	
250 255 260	
gct agc tat aca gag aag agc aat cca ctc tat gat act gtg act aag	915
Ala Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys	
265 270 275	
gtg gag gca ttt cca gta tca caa ggc gaa gtc aat ggc aca gac tgc	963
Val Glu Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys	

280

285

290

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 25 30 35

Thr Lys Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly Leu Pro
 40 45 50 55

Ser Cys Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn Glu Thr Ser
 60 65 70

Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro
 75 80 85

Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly Thr Tyr Thr
 90 95 100

Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn Tyr Asp Leu
 105 110 115

Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Glu Lys Asn Arg
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Ser Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser
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Trp Ser Pro Asp Gly Asp Cys Val Thr Thr Ser Glu Ser His Ser Asn

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Ser Asp Val Ser Cys Ile Val Ser His Leu Thr Gly Asn Gln Ser Leu 185 190 195		
Ser Ile Glu Leu Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro Tyr Ile 200 205 210 215		
Pro Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile 220 225 230		
Cys Leu Leu Lys Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro Lys Leu 235 240 245		
Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser 250 255 260		
Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys Val Glu 265 270 275		
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 homo sapiens

<220>
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<222> (1)..(750)

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tgc cct cct att gca tta aga aat ttg atc ata ata aca tgg gaa ata Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr Trp Glu Ile 35 40 45	144
atc ctg aga ggc cag cct tcc tgc aca aaa gcc tac aag aaa gaa aca Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys Lys Glu Thr 50 55 60	192
aat gag acc aag gaa acc aac tgt act gtt gag aga ata acc tgg gtc Asn Glu Thr Lys Glu Thr Asn Cys Thr Val Glu Arg Ile Thr Trp Val 65 70 75 80	240

tct aga cct gat cag aat tcg gac ctt cag att cgt ccg gtg gac acc	288
Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro Val Asp Thr	
85 90 95	
act cat gac ggg tat tac aga ggc ata gtg gta aca cct gat ggg aat	336
Thr His Asp Gly Tyr Tyr Arg Gly Ile Val Val Thr Pro Asp Gly Asn	
100 105 110	
ttc cat cgt gga tat cac ctc caa gtg tta gtt aca ccc gaa gtg aac	384
Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Asn	
115 120 125	
cta ttt caa agc agg aat ata act gca gta tgc aag gca gtt aca ggg	432
Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys Ala Val Thr Gly	
130 135 140	
aag cca gct gcc cag atc tcc tgg atc cca gag gga tct att ctt gcc	480
Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Ser Ile Leu Ala	
145 150 155 160	
act aag caa gaa tac tgg ggc aat ggc aca gtg acg gtt aag agt aca	528
Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr Val Lys Ser Thr	
165 170 175	
tgc ccc tgg gag ggc cac aag tct act gtg acc tgc cat gtc tcc cat	576
Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr Cys His Val Ser His	
180 185 190	
ttg act ggc aac aag agt ctg tcc gta aag ttg aat tca ggt ctc aga	624
Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu Asn Ser Gly Leu Arg	
195 200 205	
acc tca gga tct cca gcg ttg tcc tta ctg atc att ctt tat gtg aaa	672
Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile Ile Leu Tyr Val Lys	
210 215 220	
ctc tct ctt ttt gtg gtc att ctg gtc acc aca gga ttt gtt ttc ttc	720
Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr Gly Phe Val Phe Phe	
225 230 235 240	
cag agg ata aat cat gtc aga aaa gtt ctt taaagaagaa ggaaggggtct	770
Gln Arg Ile Asn His Val Arg Lys Val Leu	
245 250	
tcttttgcctt ctctctcttg tctctggact gcaacattgg tgagatgagt gatgggtccag	830
cagtgaactt gggccatgga tgatgttaag gatagaagcc actcagtagg atagaagaaa	890
agaaagatgg aagaaggatc ctgggcttga tgaccatgaa gtttccttat aaaccctcaa	950
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<210> 8
 <211> 250
 <212> PRT
 <213> Unknown

<400> 8
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 Gly Asn Ile Ser Gln Pro Val Leu Met Asp Ile Asn Ala Val Leu Cys

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Cys	Pro	Pro	Ile	Ala	Leu	Arg	Asn	Leu	Ile	Ile	Ile	Thr	Trp	Glu	Ile
35					40					45					
Ile	Leu	Arg	Gly	Gln	Pro	Ser	Cys	Thr	Lys	Ala	Tyr	Lys	Lys	Glu	Thr
50					55					60					
Asn	Glu	Thr	Lys	Glu	Thr	Asn	Cys	Thr	Val	Glu	Arg	Ile	Thr	Trp	Val
65					70					75					
Ser	Arg	Pro	Asp	Gln	Asn	Ser	Asp	Leu	Gln	Ile	Arg	Pro	Val	Asp	Thr
85					90					95					
Thr	His	Asp	Gly	Tyr	Tyr	Arg	Gly	Ile	Val	Val	Thr	Pro	Asp	Gly	Asn
100					105					110					
Phe	His	Arg	Gly	Tyr	His	Leu	Gln	Val	Leu	Val	Thr	Pro	Glu	Val	Asn
115					120					125					
Leu	Phe	Gln	Ser	Arg	Asn	Ile	Thr	Ala	Val	Cys	Lys	Ala	Val	Thr	Gly
130					135					140					
Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Ile	Pro	Glu	Gly	Ser	Ile	Leu	Ala
145					150					155					
Thr	Lys	Gln	Glu	Tyr	Trp	Gly	Asn	Gly	Thr	Val	Thr	Val	Lys	Ser	Thr
165					170					175					
Cys	Pro	Trp	Glu	Gly	His	Lys	Ser	Thr	Val	Thr	Cys	His	Val	Ser	His
180					185					190					
Leu	Thr	Gly	Asn	Lys	Ser	Leu	Ser	Val	Lys	Leu	Asn	Ser	Gly	Leu	Arg
195					200					205					
Thr	Ser	Gly	Ser	Pro	Ala	Leu	Ser	Leu	Leu	Ile	Ile	Leu	Tyr	Val	Lys
210					215					220					
Leu	Ser	Leu	Phe	Val	Val	Ile	Leu	Val	Thr	Thr	Gly	Phe	Val	Phe	Phe
225					230					235					
Gln	Arg	Ile	Asn	His	Val	Arg	Lys	Val	Leu						
245					250										

<210> 9
 <211> 1085
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism:rodent; surmised
 mus musculus

<220>
 <221> CDS
 <222> (1)..(582)

<400> 9																
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Arg	Gly	Gln	Pro	Ser	Cys	Ile	Met	Ala	Tyr	Lys	Val	Glu	Thr	Lys	Glu	
1				5				10				15				
acc aat gaa acc tgc ttg ggc agg aac atc acc tgg gcc tcc aca cct															96	

Thr	Asn	Glu	Thr	Cys	Leu	Gly	Arg	Asn	Ile	Thr	Trp	Ala	Ser	Thr	Pro		
			20					25					30				
gac	cac	att	cct	gac	ctt	cag	atc	agt	gcg	gtg	gcc	ctc	cag	cat	gag	144	
Asp	His	Ile	Pro	Asp	Leu	Gln	Ile	Ser	Ala	Val	Ala	Leu	Gln	His	Glu		
		35					40					45					
ggg	aat	tac	tta	tgt	gag	ata	aca	aca	cct	gaa	ggg	aat	ttc	cat	aaa	192	
Gly	Asn	Tyr	Leu	Cys	Glu	Ile	Thr	Thr	Pro	Glu	Gly	Asn	Phe	His	Lys		
	50					55					60						
gtc	tat	gac	ctc	caa	gtg	ctg	gtg	ccc	cct	gaa	gta	acc	tac	ttt	ctc	240	
Val	Tyr	Asp	Leu	Gln	Val	Leu	Val	Pro	Pro	Glu	Val	Thr	Tyr	Phe	Leu		
	65				70					75					80		
ggg	gaa	aat	aga	act	gca	gtt	tgt	gag	gca	atg	gca	ggc	aag	cct	gct	288	
Gly	Glu	Asn	Arg	Thr	Ala	Val	Cys	Glu	Ala	Met	Ala	Gly	Lys	Pro	Ala		
				85				90						95			
gca	cag	atc	tct	tgg	act	cca	gat	ggg	gac	tgt	gtc	act	aag	agt	gag	336	
Ala	Gln	Ile	Ser	Trp	Thr	Pro	Asp	Gly	Asp	Cys	Val	Thr	Lys	Ser	Glu		
			100					105					110				
tca	cac	agc	aat	ggc	act	gtg	act	gtc	agg	agc	act	tgc	cac	tgg	gag	384	
Ser	His	Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys	His	Trp	Glu		
			115				120					125					
cag	aac	aat	gtg	tct	gct	gtg	tcc	tgc	att	gtc	tct	cat	tcg	act	ggg	432	
Gln	Asn	Asn	Val	Ser	Ala	Val	Ser	Cys	Ile	Val	Ser	His	Ser	Thr	Gly		
	130					135					140						
aat	cag	tct	ctg	tcc	ata	gaa	ctg	agt	aga	ggg	acc	acc	agc	acc	acc	480	
Asn	Gln	Ser	Leu	Ser	Ile	Glu	Leu	Ser	Arg	Gly	Thr	Thr	Ser	Thr	Thr		
	145				150					155					160		
cct	tcc	ttg	ctg	acc	att	ctc	tac	gtg	aaa	atg	gtc	ctt	ttg	ggg	att	528	
Pro	Ser	Leu	Leu	Thr	Ile	Leu	Tyr	Val	Lys	Met	Val	Leu	Leu	Gly	Ile		
				165					170					175			
att	ctt	ctt	aaa	gtg	gga	ttt	gct	ttc	ttc	cag	aag	aga	aat	gtt	acc	576	
Ile	Leu	Leu	Lys	Val	Gly	Phe	Ala	Phe	Phe	Gln	Lys	Arg	Asn	Val	Thr		
			180					185					190				
aga	aca	tgaatatcca	gatttctgga	agctcattag	tctgatgaca	cataccagaa										632	
Arg	Thr																
aacagcattt	gtaatcaact	ttctcattgg	aatccagctt	acccgtccct	gctgtcttca											692	
tgtttgtag	acactcacct	ccaaattctt	aactgagaag	ggctcctgtc	taaaggaaat											752	
atggggacaa	attgtggagc	atagacaaaa	agaaaggcca	tccagagact	gccccaccta											812	
aggacccatc	ccatatacag	acaccaaacc	cagacactac	tgaagatgct	gcgaagcggt											872	
tgctgacagg	agcctgttat	agctgtctcc	tgagaggctc	agccagagcc	tgacaaatac											932	
ataggtagat	gcttgagcc	aacaactgga	ctgagcaaaa	aatctccatt	ggaggagtta											992	
gagaaaggac	tgaagagggg	gaaaggggtt	gcagcccat	aggaagaaca	acaatatcaa											1052	
ccaaccagat	ctcccagagc	tcccaggagc	taa													1085	

<210> 10

<211> 194
 <212> PRT
 <213> Unknown

<400> 10

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Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
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Thr Asn Glu Thr Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro
      20           25           30

Asp His Ile Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu
      35           40           45

Gly Asn Tyr Leu Cys Glu Ile Thr Thr Pro Glu Gly Asn Phe His Lys
      50           55           60

Val Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Leu
      65           70           75           80

Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala
      85           90           95

Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu
      100          105          110

Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu
      115          120          125

Gln Asn Asn Val Ser Ala Val Ser Cys Ile Val Ser His Ser Thr Gly
      130          135          140

Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg Gly Thr Thr Ser Thr Thr
      145          150          155          160

Pro Ser Leu Leu Thr Ile Leu Tyr Val Lys Met Val Leu Leu Gly Ile
      165          170          175

Ile Leu Leu Lys Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Val Thr
      180          185          190

Arg Thr
  
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<210> 11
 <211> 1354
 <212> DNA
 <213> Unknown

<220>

<223> Description of Unknown Organism:rodent; surmised
 mus musculus

<220>

<221> CDS
 <222> (42) .. (875)

<220>

<221> mat_peptide
 <222> (117) .. (875)

<400> 11

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Met His Ala Leu Gly
-25

agg	act	ctg	gct	ttg	atg	tta	ctc	atc	ttc	atc	act	att	ttg	gtg	cct	104
Arg	Thr	Leu	Ala	Leu	Met	Leu	Leu	Ile	Phe	Ile	Thr	Ile	Leu	Val	Pro	
-20					-15				-10						-5	
gag	tca	agt	tgt	tca	gtg	aaa	gga	cgg	gag	gag	atc	cca	ccg	gat	gat	152
Glu	Ser	Ser	Cys	Ser	Val	Lys	Gly	Arg	Glu	Glu	Ile	Pro	Pro	Asp	Asp	
		-1	1					5					10			
tca	ttt	cct	ttt	tca	gat	gat	aat	atc	ttc	cct	gat	gga	gtg	ggc	gtc	200
Ser	Phe	Pro	Phe	Ser	Asp	Asp	Asn	Ile	Phe	Pro	Asp	Gly	Val	Gly	Val	
		15					20					25				
acc	atg	gag	att	gag	att	atc	act	cca	gtg	tct	gta	cag	ata	ggg	atc	248
Thr	Met	Glu	Ile	Glu	Ile	Ile	Thr	Pro	Val	Ser	Val	Gln	Ile	Gly	Ile	
	30					35					40					
aag	gct	cag	ctt	ttc	tgt	cat	cct	agt	cca	tca	aaa	gaa	gca	aca	ctt	296
Lys	Ala	Gln	Leu	Phe	Cys	His	Pro	Ser	Pro	Ser	Lys	Glu	Ala	Thr	Leu	
45					50					55					60	
aga	ata	tgg	gaa	ata	act	ccc	aga	gac	tgg	cct	tcc	tgc	aga	cta	ccc	344
Arg	Ile	Trp	Glu	Ile	Thr	Pro	Arg	Asp	Trp	Pro	Ser	Cys	Arg	Leu	Pro	
				65					70					75		
tac	aga	gca	gag	ttg	cag	cag	atc	agt	aaa	aaa	atc	tgt	act	gag	aga	392
Tyr	Arg	Ala	Glu	Leu	Gln	Gln	Ile	Ser	Lys	Lys	Ile	Cys	Thr	Glu	Arg	
			80					85					90			
gga	acc	act	agg	gtc	cct	gca	cat	cac	cag	agt	tct	gac	ctt	ccc	atc	440
Gly	Thr	Thr	Arg	Val	Pro	Ala	His	His	Gln	Ser	Ser	Asp	Leu	Pro	Ile	
		95					100					105				
aaa	tca	atg	gcc	ctc	aag	cat	gat	ggg	cat	tac	tca	tgt	cgg	ata	gaa	488
Lys	Ser	Met	Ala	Leu	Lys	His	Asp	Gly	His	Tyr	Ser	Cys	Arg	Ile	Glu	
	110					115					120					
aca	aca	gat	ggg	att	ttc	caa	gag	aga	cat	agc	atc	caa	gtg	cca	ggg	536
Thr	Thr	Asp	Gly	Ile	Phe	Gln	Glu	Arg	His	Ser	Ile	Gln	Val	Pro	Gly	
125					130					135					140	
gaa	aat	aga	act	gta	gtt	tgt	gag	gca	att	gca	agc	aag	cct	gct	atg	584
Glu	Asn	Arg	Thr	Val	Val	Cys	Glu	Ala	Ile	Ala	Ser	Lys	Pro	Ala	Met	
				145					150					155		
cag	atc	ttg	tgg	act	cca	gat	gag	gac	tgt	gtc	act	aag	agt	aaa	tca	632
Gln	Ile	Leu	Trp	Thr	Pro	Asp	Glu	Asp	Cys	Val	Thr	Lys	Ser	Lys	Ser	
			160					165					170			
cac	aat	gac	acc	atg	att	gtc	agg	agc	aag	tgc	cac	agg	gag	aaa	aac	680
His	Asn	Asp	Thr	Met	Ile	Val	Arg	Ser	Lys	Cys	His	Arg	Glu	Lys	Asn	
		175					180					185				
aat	ggc	cac	agt	gtg	ttc	tgc	ttt	atc	tcc	cat	ttg	act	gat	aac	tgg	728
Asn	Gly	His	Ser	Val	Phe	Cys	Phe	Ile	Ser	His	Leu	Thr	Asp	Asn	Trp	
	190					195					200					
att	ctc	tcc	atg	gaa	cag	aat	cga	ggg	aca	acc	agc	atc	ctg	cct	tcc	776
Ile	Leu	Ser	Met	Glu	Gln	Asn	Arg	Gly	Thr	Ser	Ile	Leu	Pro	Ser		
205					210					215				220		
ttg	ctg	agc	att	ctc	tat	gtg	aaa	ctg	gct	gta	act	gtt	ctc	atc	gta	824

Leu Leu Ser Ile Leu Tyr Val Lys Leu Ala Val Thr Val Leu Ile Val
 225 230 235
 gga ttt gct ttt ttc cag aag aga aat tat ttc aga gtg cca gaa ggc 872
 Gly Phe Ala Phe Phe Gln Lys Arg Asn Tyr Phe Arg Val Pro Glu Gly
 240 245 250
 tcc tgaggagagt ggtctgtggt taagatgaga tttaccacca tctgaaagac 925
 Ser
 atcttgtcta ccgcgcagcg tgctgagatt ccgagaagca gccacagaac ctactaggaa 985
 gacaaatctg atgtggttgt caatcctttc aatggacctg agtacttcta taaacccgag 1045
 tgaggttgtg ctggaccag gagccaggct aggtcatata tgttgatttt tgctgcaaga 1105
 cctcatggtt tatctacaaa tcctaaattc tttcacttcc agttttaaaa cttttggccc 1165
 aagcatttta tccacagcat aacaccttta aagaaactct cccacggaaa ctgctgggtc 1225
 catggaatgg aaaattgcaa catgggtttac aagacagtgc aaaccaagca gcattccaag 1285
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 ccagtcctcc 1354

<210> 12
 <211> 278
 <212> PRT
 <213> Unknown

<400> 12
 Met His Ala Leu Gly Arg Thr Leu Ala Leu Met Leu Leu Ile Phe Ile
 -25 -20 -15 -10
 Thr Ile Leu Val Pro Glu Ser Ser Cys Ser Val Lys Gly Arg Glu Glu
 -5 -1 1 5
 Ile Pro Pro Asp Asp Ser Phe Pro Phe Ser Asp Asp Asn Ile Phe Pro
 10 15 20
 Asp Gly Val Gly Val Thr Met Glu Ile Glu Ile Ile Thr Pro Val Ser
 25 30 35
 Val Gln Ile Gly Ile Lys Ala Gln Leu Phe Cys His Pro Ser Pro Ser
 40 45 50 55
 Lys Glu Ala Thr Leu Arg Ile Trp Glu Ile Thr Pro Arg Asp Trp Pro
 60 65 70
 Ser Cys Arg Leu Pro Tyr Arg Ala Glu Leu Gln Gln Ile Ser Lys Lys
 75 80 85
 Ile Cys Thr Glu Arg Gly Thr Thr Arg Val Pro Ala His His Gln Ser
 90 95 100
 Ser Asp Leu Pro Ile Lys Ser Met Ala Leu Lys His Asp Gly His Tyr
 105 110 115
 Ser Cys Arg Ile Glu Thr Thr Asp Gly Ile Phe Gln Glu Arg His Ser
 120 125 130 135
 Ile Gln Val Pro Gly Glu Asn Arg Thr Val Val Cys Glu Ala Ile Ala

140	145	150
Ser Lys Pro Ala Met Gln Ile Leu Trp Thr Pro Asp Glu Asp Cys Val		
155	160	165
Thr Lys Ser Lys Ser His Asn Asp Thr Met Ile Val Arg Ser Lys Cys		
170	175	180
His Arg Glu Lys Asn Asn Gly His Ser Val Phe Cys Phe Ile Ser His		
185	190	195
Leu Thr Asp Asn Trp Ile Leu Ser Met Glu Gln Asn Arg Gly Thr Thr		
200	205	210
Ser Ile Leu Pro Ser Leu Leu Ser Ile Leu Tyr Val Lys Leu Ala Val		
220	225	230
Thr Val Leu Ile Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Tyr Phe		
235	240	245
Arg Val Pro Glu Gly Ser		
250		

<210> 13
 <211> 981
 <212> DNA
 <213> reverse translation

<220>
 <221> misc_feature
 <222> (1)..(981)
 <223> n may be a, c, g, or t

<400> 13
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 gcngarwsnw sntgyccnga yaaraaycar acnatgcara ayaaywsnws nacnatgacn 120
 gargtnaaya cnacngtntt ygtncaratg ggnaaraarg cnytnytny ytgyccnwsn 180
 athwsnytna cnaargtnat hytnathacn tggacnatha cnytnmgngg ncarccnwsn 240
 tgyathathw sntayaargc ngayacnmgn garacncayg arwsnaaytg ywsngaymgn 300
 wsnathacnt gggcnwsnac nccngayytn gcncnggayy tncarathws ngcngtngcn 360
 ytnrcarcayg arggnmgnta ywsntgygay athgcngtnc cngayggnaa yttycaraay 420
 athtaygayy tncargtnyt ngtnccnccn gargtnacnc ayttycngg ngaraaymgn 480
 acngcngtnt gygargcnat hgcnggnaar ccngcngcnc arathwsntg gacncngay 540
 ggngaytgyg tngcnaaraa ygarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
 tgycaytggg arcarwsnca ygtnwsngtn gtnttytgyg tngtnwsnca yytnacnacn 660
 ggnaaycarw snytnwsnat hgarytnggn mgngggngng aycarytnyt nggnwsntay 720
 athcartaya thathccnws nathathath ytnathatha thggntgyat htgyytnytn 780
 aarathwsng gntgymgnaa rtgyaarytn ccnaarwsng gngcnacncc ngayathgar 840
 gargaygara tgcarcnta ygcnwsntay acngaraarw snaayccnyt ntaygayacn 900

gtnacnacna cngargcnca yccngcnwsn carggnaarg tnaayggnac ngaytgyytn 960
acnytnwsng cnatgggnat h 981

<210> 14
<211> 885
<212> DNA
<213> reverse translation

<220>
<221> misc_feature
<222> (1)..(885)
<223> n may be a, c, g, or t

<400> 14
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gtngcngarg cngarggngc ngencarccn aayaaywsny tnatgytnca racnwsnaar 120
garaaycayg cnytnngcnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180
taywsnaarg tnytnngcnga rgtnaayacn wsntggccng tnaaratggc nacnaaygcn 240
gtnytnytny gyccnccnat hgcnymnmgc aayytnatha thathacntg ggarathath 300
ytnmngggnc arccnwsntg yacnaargcn tayaaraarg aracnaayga racnaargar 360
acnaaytgyc cngaygarmg nathacntgg gtnwsnmngc cngaycaraa ywsngayytn 420
carathmgna cngtnngcnat hacncaygay ggntaytaym gntgyathat ggtnacnccn 480
gayggnaayt tycaymgngg ntaycayytn cargtnytny tnacnccnga rgtnacnytn 540
tтысaraaym gnaaymgnac ngcngtnytny aargcngtny cnggnaarcc ngcngcnay 600
athwsntgga thcngargg ngaytgygcn acnaarcarg artaytgows naayggnacn 660
gtnacngtna arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgyay 720
gtnwsncayy tnacnggnaa yaarwsnytn tayathgary tnytnccngt ncnggngcn 780
aaraarathw snaarathat htaywsnath taycaycct aytaytayta yytngaycay 840
mgnggnathc ayytnytny ngarwsncar tgyytncara arath 885

<210> 15
<211> 978
<212> DNA
<213> reverse translation

<220>
<221> misc_feature
<222> (1)..(978)
<223> n may be a, c, g, or t

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gcnggnwsnw sntgyacnga yaaraaycar acnacnara ayaaywsnws nwsnccnytn 120
acncargtna ayacnacngt nwsngtnar athgggnacna argcnynytn ntgytytyty 180

wsnathccny tnacnaargc ngtnytnath acntggatha thaarytnmg nggnytnccn 240
 wsntgyacna thgcntayaa rgtngayacn aaracnaayg aracnwsntg yytnggnmgn 300
 aayathacnt gggcnwsnac nccngaycay wsnccngary tncarathws ngcngtnacn 360
 ytnarcayg arggnacnta yacntgygar acngtnacnc cngarggnaa yttygaraar 420
 aaytaygayy tncargtnyt ngtnccnccn gargtnacnt ayttyccnga raaraaymgn 480
 wsnccngtnt gygargcnat ggcnggnaar ccngcngcnc arathwsntg gwsnccngay 540
 ggngaytgyg tnacnacnws ngarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
 tgycaytggg arcaraayaa ygtnwsngay gtnwsntgya thgtwnsnca yytnacnggn 660
 aaycarwsny tnwsnathga rytnwsnmgn ggnggnaayc arwsnytnmg nccntayath 720
 ccntayatha thccnwsnat hathathytn athathathg gntgyathtg yytnytnaar 780
 athwsnggnt tymgnaartg yaarytnccn aarytngarg cnacnwsngc nathgargar 840
 gaygaratgc arccntaygc nwsntayacn garaarwsna ayccnynta ygayacngtn 900
 acnaargtng argcnttycc ngtnwsncar ggngargtna ayggnacnga ytgyytnacn 960
 ytnwsngcna thgggnath 978

<210> 16
 <211> 750
 <212> DNA
 <213> reverse translation

<220>
 <221> misc_feature
 <222> (1)..(750)
 <223> n may be a, c, g, or t

<400> 16
 atgggnggna arcaratgac ncaraaytay wsnacnatht tygcngargg naayathwsn 60
 carccngtny tnatggayat haaygcngtn ytntgytgyc ccccnathgc nytnmgnaay 120
 ytnathatha thacntggga rathathytn mgnggncarc cnwsntgyac naargcntay 180
 aaraargara cnaaygarac naargaracn aaytgyacng tngarmgnat hacntgggtn 240
 wsnmgncngc aycaraayws ngayytncar athmgncngc tngayacnac ncaygayggn 300
 taytaymgng gnathgtngt nacnccngay ggnaayttyc aymngngnta ycayytncar 360
 gtnytnngtna cncngargt naayytntty carwsnmgna ayathacngc ngtnntgyaar 420
 gcngtnacng gnaarccngc ngencarath wsntggathc cngarggnws nathytnngn 480
 acnaarcarg artaytgggg naayggnacn gtnacngtna arwsnacntg yccntgggar 540
 ggncayaarw snacngtnac ntgycaygt nwncaaytna cnggnaayaa rwsnytnwsn 600
 gtnaarytna aywsnggnytn nmgnacnwsn ggnwsnccng cnytnwsnytn nytnathath 660
 ytntaygt narytnwsnytn nttygtngtn athytnngtna cnacnggntt ygtnttytty 720

<210> 17
 <211> 582
 <212> DNA
 <213> reverse translation

<220>
 <221> misc_feature
 <222> (1)..(582)
 <223> n may be a, c, g, or t

<400> 17
 mgnggncarc cnwsntgyat hatggcntay aargtngara cnaargarac naaygaracn 60
 tgyytnggngm gnaayathac ntgggcnwsn acnccngayc ayathccnga yytnicarath 120
 wsnngcngtng cnytnarca ygarggnaay tayytnntgyg arathacnac nccngarggn 180
 aayttycaya argntayga yytncargtn ytngtnccnc cngargtnac ntayttyytn 240
 ggngaraaym gnacngcngt ntgygargcn atggcnggna arccngcngc ncarathwsn 300
 tggacnccng ayggngaytg ygtnacnaar wsnarwsnc aywsnaaygg nacngtnacn 360
 gtnmgnwsna cntgycaytg ggarcaraay aaygtnwsng cngtnwsntg yathgtnwsn 420
 caywsnacng gnaaycarws nytnwsnath garytnwsnm gnggnacnac nwsnacnacn 480
 ccnwsnytny tnacnathyt ntaygtnaar atggtnytny tnggnathat hytnytnaar 540
 gtnggnttyg cnttyttyca raarmgnaay gtnacnmgna cn 582

<210> 18
 <211> 834
 <212> DNA
 <213> reverse translation

<220>
 <221> misc_feature
 <222> (1)..(834)
 <223> n may be a, c, g, or t

<400> 18
 atgcaygcn y tnggmgnac nytngcnytn atgytnytna thttyathac nathytnngtn 60
 ccngarwsnw sntgywsngt naarggnmgn gargarathc cncngayga ywsnttyccn 120
 ttywsngayg ayaayathht yccngayggn gtnggngtna cnatggarat hgarathath 180
 acnccngtnw sngtncarat hggcnathaar gcncarytn tytgycaycc nwsnccnwsn 240
 aargargcna cnytnmgnt htgggarath acnccnmgng aytggccnws ntgymgnytn 300
 ccntaymgng cngarytnca rcarathwsn aaraaratht gyacngarmg nggnacnacn 360
 mgngtnccng ncaycayca rwsnwsngay ytnccnatha arwsnatggc nytnaarca 420
 gayggncayt aywsntgymg nathgaracn acngayggna thttycarga rmgncaysn 480
 athcargtn cngngaraa ymgnaacngtn gtntgygarg cnathgcnws naarccngcn 540

atgcarathy tntggacncc ngaygargay tgygtnacna arwsnaarws ncayaaygay 600
acnatgathg tnmgnwsnaa rtgycaymgn garaaraaya ayggncayws ngtnnttytgy 660
ttyathwsnc ayytnacnga yaaytggath ytnwsnatgg arcaraaymg nggnacnacn 720
wsnathytnc cnwsnytnyt nwsnathytn taygtnaary tngcngtnac ngtnytnath 780
gtnggnttyg cnttyttyca raarmgnaay tayttymgng tncngargg nwsn 834

<210> 19
<211> 1047
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:primate; surmised
homo sapiens

<220>
<221> CDS
<222> (1)..(1044)

<220>
<221> mat_peptide
<222> (79)..(1044)

<400> 19
atg ctc tgc cct tgg aga act gct aac cta ggg cta ctg ttg att ttg 48
Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu
-25 -20 -15

act atc ttc tta gtg gcc gaa gcg gag ggt gct gct caa cca aac aac 96
Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
-10 -5 -1 1 5

tca tta atg ctg caa act agc aag gag aat cat gct tta gct tca agc 144
Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
10 15 20

agt tta tgt atg gat gaa aaa cag att aca cag aac tac tcg aaa gta 192
Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val
25 30 35

ctc gca gaa gtt aac act tca tgg cct gta aag atg gct aca aat gct 240
Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala
40 45 50

gtg ctt tgt tgc cct cct atc gca tta aga aat ttg atc ata ata aca 288
Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr
55 60 65 70

tgg gaa ata atc ctg aga ggc cag cct tcc tgc aca aaa gcc tac agg 336
Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Arg
75 80 85

aaa gaa aca aat gag acc aag gaa acc aac tgt act gat gag aga ata 384
Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile
90 95 100

acc tgg gtc tcc aga cct gat cag aat tcg gac ctt cag att cgt cca 432
Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro

105	110	115	
gtg gcc atc act cat gac ggg tat tac aga tgc ata atg gta aca cct			480
Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro			
120	125	130	
gat ggg aat ttc cat cgt gga tat cac ctc caa gtg tta gtt aca cct			528
Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro			
135	140	145	150
gaa gtg acc ctg ttt caa aac agg aat aga act gca gta tgc aag gca			576
Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala			
	155	160	165
gtt gca ggg aag cca gct gcg cag atc tcc tgg atc cca gag ggc gat			624
Val Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Asp			
	170	175	180
tgt gcc act aag caa gaa tac tgg agc aat ggc aca gtg act gtt aag			672
Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys			
	185	190	195
agt aca tgc cac tgg gag gtc cac aat gtg tct acc gtg acc tgc cac			720
Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His			
	200	205	210
gtc tcc cat ttg act ggc aac aag agt ctg tac ata gag cta ctt cct			768
Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro			
215	220	225	230
gtt cca ggt gcc aaa aaa tca gca aaa tta tat att cca tat atc atc			816
Val Pro Gly Ala Lys Lys Ser Ala Lys Leu Tyr Ile Pro Tyr Ile Ile			
	235	240	245
ctt act att att att ttg acc atc gtg gga ttc att tgg ttg ttg aaa			864
Leu Thr Ile Ile Ile Leu Thr Ile Val Gly Phe Ile Trp Leu Leu Lys			
	250	255	260
gtc aat ggc tgc aga aaa tat aaa ttg aat aaa aca gaa tct act cca			912
Val Asn Gly Cys Arg Lys Tyr Lys Leu Asn Lys Thr Glu Ser Thr Pro			
	265	270	275
gtt gtt gag gag gat gaa atg cag ccc tat gcc agc tac aca gag aag			960
Val Val Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys			
	280	285	290
aac aat cct ctc tat gat act aca aac aag gtg aag gca tct cag gca			1008
Asn Asn Pro Leu Tyr Asp Thr Thr Asn Lys Val Lys Ala Ser Gln Ala			
295	300	305	310
tta caa agt gaa gtt gac aca gac ctc cat act tta taa			1047
Leu Gln Ser Glu Val Asp Thr Asp Leu His Thr Leu			
	315	320	

<210> 20
 <211> 348
 <212> PRT
 <213> Unknown

<400> 20
 Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu
 -25 -20 -15

Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
 -10 -5 -1 1 5
 Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
 10 15 20
 Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val
 25 30 35
 Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala
 40 45 50
 Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr
 55 60 65 70
 Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Arg
 75 80 85
 Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile
 90 95 100
 Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro
 105 110 115
 Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro
 120 125 130
 Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro
 135 140 145 150
 Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala
 155 160 165
 Val Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Asp
 170 175 180
 Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys
 185 190 195
 Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His
 200 205 210
 Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro
 215 220 225 230
 Val Pro Gly Ala Lys Lys Ser Ala Lys Leu Tyr Ile Pro Tyr Ile Ile
 235 240 245
 Leu Thr Ile Ile Ile Leu Thr Ile Val Gly Phe Ile Trp Leu Leu Lys
 250 255 260
 Val Asn Gly Cys Arg Lys Tyr Lys Leu Asn Lys Thr Glu Ser Thr Pro
 265 270 275
 Val Val Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys
 280 285 290
 Asn Asn Pro Leu Tyr Asp Thr Thr Asn Lys Val Lys Ala Ser Gln Ala
 295 300 305 310
 Leu Gln Ser Glu Val Asp Thr Asp Leu His Thr Leu
 315 320

<210> 21
 <211> 1044
 <212> DNA
 <213> reverse translation

<220>
 <221> misc_feature
 <222> (1)..(1044)
 <223> n may be a, c, g, or t

<400> 21
 atgytntgyc cntggmgnc ngcnaayytn ggnytnytny tnathytnac nathttyytn 60
 gtngcngarg cngarggngc ngcncarccn aayaaywsny tnatgytnca racnwsnaar 120
 garaaycayg cnytnngcnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180
 taywsnaarg tnytnngcnga rgtnaayacn wsntggccng tnaaratggc nacnaaygcn 240
 gtntyntgyt gyccnccnat hgcnytnmgn aayytnatha thathacntg ggarathath 300
 ytnmgnggnc arccnwsntg yacnaargcn taymgnaarg aracnaayga racnaargar 360
 acnaaytgya cngaygarmg nathacntgg gtnwsnmgnc cngaycaraa ywsngayytn 420
 carathmgnc cngtngcnat hacncaygay ggntaytaym gntgyathat ggtnacnccn 480
 gayggnaayt tycaymgngg ntaycayytn cargtnytny tnacncnga rgtnacnytn 540
 ttcaraaym gnaaymgnc ngcngtntgy aargcngtny cnggnaarcc ngcngcnar 600
 athwsntgga thccngargg ngaytgygcn acnaarcarg artaytggws naayggnaacn 660
 gtnacngtna arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgygay 720
 gtnwsncayy tnacnggnaa yaarwsnytn tayathgary tnytnccngt nccnggngcn 780
 aaraarwsng cnaarytna yathccntay athathytna cnathathat hytnacnath 840
 gtnggnttya thtggynytn naargtnaay ggntgymgna artayaaryt naayaaracn 900
 garwsnacnc cngtngtna rgargaygar atgcarccnt aygcnwsnta yacngaraar 960
 aayaayccny tntaygayac nacnaayaar gtnaargcnw sncargcnyt ncarwsngar 1020
 gtngayacng ayytncaayac nytn 1044

<210> 22
 <211> 813
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism:rodent; surmised
 mus musculus

<220>
 <221> CDS
 <222> (1)..(810)

<220>
 <221> mat_peptide

<222> (76) .. (810)

<400> 22

atg cat gct ctg ggg agg att ccg act ttg act ttg ctg atc ttc atc	48
Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile	
-25 -20 -15 -10	
aat att ttt gtg tct ggg tca agt tgt act gat gag aat caa aca ata	96
Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile	
-5 -1 1 5	
cag aat gac agt tca tct tct ctg aca caa gtt aac act aca atg tct	144
Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser	
10 15 20	
gta cag atg gat aaa aag gct ctg ctc tgc tgc ttt tct agt cca ctg	192
Val Gln Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu	
25 30 35	
ata aat gca gta tta atc aca tgg ata ata aaa cac aga cac ctg cct	240
Ile Asn Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro	
40 45 50 55	
tcc tgc aca ata gca tac aac cta gat aaa aag acc aat gaa acc agc	288
Ser Cys Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser	
60 65 70	
tgc ttg ggc agg aac atc acc tgg gcc tcc aca cct gac cac agt cct	336
Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro	
75 80 85	
gaa ctt cag atc agt gca gtg gcc ctc cag cat gag ggg act tac aca	384
Glu Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr	
90 95 100	
tgt gag ata gta aca cct gaa ggg aat tta gaa aaa gtc tat gac ctc	432
Cys Glu Ile Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu	
105 110 115	
caa gtg ctg gtg ccc cct gag gta acc tac ttt cca ggg aaa aac aga	480
Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg	
120 125 130 135	
act gca gtc tgt gag gca atg gca ggc aag cct gct gca cag atc tct	528
Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser	
140 145 150	
tgg act cca gat ggg gac tgt gtc act aag agt gag tca cac agc aat	576
Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn	
155 160 165	
ggc act gtg act gtc agg agc acg tgc cac tgg gag cag aac aat gtg	624
Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val	
170 175 180	
tct gtt gtg tcc tgc tta gtc tct cat tcg act ggt aat cag tct ctg	672
Ser Val Val Ser Cys Leu Val Ser His Ser Thr Gly Asn Gln Ser Leu	
185 190 195	
tcc ata gaa ctg agt caa ggt aca atg acc acc ccc cgt tcc ttg ctg	720
Ser Ile Glu Leu Ser Gln Gly Thr Met Thr Thr Pro Arg Ser Leu Leu	
200 205 210 215	

acc att ctc tat gtg aaa atg gcc ctt ttg gtg att att ctt ctt aac 768
 Thr Ile Leu Tyr Val Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn
 220 225 230

gta gga ttt gct ttc ttc cag aag aga aat ttt gcc aga aca tga 813
 Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Phe Ala Arg Thr
 235 240 245

<210> 23
 <211> 270
 <212> PRT
 <213> Unknown

<400> 23
 Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile
 -25 -20 -15 -10

Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile
 -5 -1 1 5

Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser
 10 15 20

Val Gln Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu
 25 30 35

Ile Asn Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro
 40 45 50 55

Ser Cys Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser
 60 65 70

Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro
 75 80 85

Glu Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr
 90 95 100

Cys Glu Ile Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu
 105 110 115

Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg
 120 125 130 135

Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser
 140 145 150

Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn
 155 160 165

Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val
 170 175 180

Ser Val Val Ser Cys Leu Val Ser His Ser Thr Gly Asn Gln Ser Leu
 185 190 195

Ser Ile Glu Leu Ser Gln Gly Thr Met Thr Thr Pro Arg Ser Leu Leu
 200 205 210 215

Thr Ile Leu Tyr Val Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn
 220 225 230

Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Phe Ala Arg Thr

<210> 24
 <211> 810
 <212> DNA
 <213> reverse translation

<220>
 <221> misc_feature
 <222> (1)..(810)
 <223> n may be a, c, g, or t

<400> 24
 atgcaygcny tnggnmgnt hccnacnytn acnytnytna thttyathaa yathttygtn 60
 wsnngnwnsw sntgyacnga ygaraaycar acnathcara aygaywsnws nwsnwsnytn 120
 acncargtna ayacnacnat gwsngtncar atggayaara argcnytnyt ntgytgytty 180
 wsnwsnccny tnathaaygc ngtnytnath acntggatha thaarcaymg ncayytncn 240
 wsntgyacna thgcntayaa yytngayaar aaracnaayg aracnwsntg yytnggnmgn 300
 aayathacnt gggcnwsnac nccngaycay wsnccngary tncarathws ngcngtngcn 360
 ytncarcayg arggnacnta yacntgygar athgtnacnc cngarggnaa yytngaraar 420
 gtntaygayy tncargtnyt ngtnccnccn gargtnacnt ayttyccngg naaraaymgn 480
 acngcngtnt gygargcnat ggcnggnaar ccngcngcnc arathwsntg gacnccngay 540
 ggngaytgyg tnacnaarws ngarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
 tgycaytggg arcaraayaa ygtnwsngtn gtnwsntgyy tngtnwsnca ywsnacnggn 660
 aaycarwsny tnwsnathga rytnwsncar ggnacnatga cnacnccnmg nwsnytnytn 720
 acnathytn aygtnaarat ggcnytnytn gtnathathy tnytnaaygt nggnttygcn 780
 ttyttycara armgnaaytt ygcnmgnacn 810

<210> 25
 <211> 34
 <212> PRT
 <213> Mus musculus

<400> 25
 Met Phe Cys Phe Trp Arg Thr Ser Ala Leu Ala Val Leu Leu Ile Trp
 1 5 10 15
 Gly Val Phe Val Ala Gly Ser Ser Cys Thr Asp Lys Asn Gln Thr Thr
 20 25 30
 Gln Asn

<210> 26
 <211> 34
 <212> PRT
 <213> Rattus rattus

<400> 26
 Met Leu Cys Phe Trp Arg Thr Ser His Val Ala Val Leu Leu Ile Trp

1		5		10		15									
Gly	Val	Phe	Ala	Ala	Glu	Ser	Ser	Cys	Pro	Asp	Lys	Asn	Gln	Thr	Met
		20						25					30		
Gln	Asn														

<210> 27
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 27
Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu
1 5 10 15
Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
20 25 30
Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
35 40 45
Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn
50 55 60

<210> 28
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 28
Met Gly Gly Lys Gln Met Thr Gln Asn
1 5

<210> 29
 <211> 59
 <212> PRT
 <213> Mus musculus

<400> 29
Asn Ser Ser Ser Pro Leu Thr Gln Val Asn Thr Thr Val Ser Val Gln
1 5 10 15
Ile Gly Thr Lys Ala Leu Leu Cys Cys Phe Ser Ile Pro Leu Thr Lys
20 25 30
Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly Leu Pro Ser Cys
35 40 45
Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn
50 55

<210> 30
 <211> 59
 <212> PRT
 <213> Rattus rattus

<400> 30
Asn Ser Ser Thr Met Thr Glu Val Asn Thr Thr Val Phe Val Gln Met
1 5 10 15
Gly Lys Lys Ala Leu Leu Cys Cys Pro Ser Ile Ser Leu Thr Lys Val
20 25 30
Ile Leu Ile Thr Trp Thr Ile Thr Leu Arg Gly Gln Pro Ser Cys Ile
35 40 45
Ile Ser Tyr Lys Ala Asp Thr Arg Glu Thr His
50 55

<210> 31
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 31
 Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
 1 5 10 15
 Thr Asn

<210> 32
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 32
 Tyr Ser Lys Val Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met
 1 5 10 15
 Ala Thr Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu
 20 25 30
 Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr
 35 40 45
 Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys
 50 55

<210> 33
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 33
 Tyr Ser Thr Ile Phe Ala Glu Gly Asn Ile Ser Gln Pro Val Leu Met
 1 5 10 15
 Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu
 20 25 30
 Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr
 35 40 45
 Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys
 50 55

<210> 34
 <211> 60
 <212> PRT
 <213> Mus musculus

<400> 34
 Glu Thr Ser Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp
 1 5 10 15
 His Ser Pro Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly
 20 25 30
 Thr Tyr Thr Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn
 35 40 45
 Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr
 50 55 60

<210> 35
 <211> 60
 <212> PRT

<213> Rattus rattus

<400> 35

Glu	Ser	Asn	Cys	Ser	Asp	Arg	Ser	Ile	Thr	Trp	Ala	Ser	Thr	Pro	Asp
1				5					10					15	
Leu	Ala	Pro	Asp	Leu	Gln	Ile	Ser	Ala	Val	Ala	Leu	Gln	His	Glu	Gly
			20					25					30		
Arg	Tyr	Ser	Cys	Asp	Ile	Ala	Val	Pro	Asp	Gly	Asn	Phe	Gln	Asn	Ile
		35					40					45			
Tyr	Asp	Leu	Gln	Val	Leu	Val	Pro	Pro	Glu	Val	Thr				
	50					55					60				

<210> 36

<211> 59

<212> PRT

<213> Mus musculus

<400> 36

Glu	Thr	Cys	Leu	Gly	Arg	Asn	Ile	Thr	Trp	Ala	Ser	Thr	Pro	Asp	His
1				5					10					15	
Ile	Pro	Asp	Leu	Gln	Ile	Ser	Ala	Val	Ala	Leu	Gln	His	Glu	Gly	Asn
			20					25					30		
Tyr	Leu	Cys	Glu	Ile	Thr	Thr	Pro	Glu	Gly	Asn	Phe	His	Lys	Val	Tyr
		35					40					45			
Asp	Leu	Gln	Val	Leu	Val	Pro	Pro	Glu	Val	Thr					
	50					55									

<210> 37

<211> 60

<212> PRT

<213> Homo sapiens

<400> 37

Glu	Thr	Asn	Cys	Thr	Asp	Glu	Arg	Ile	Thr	Trp	Val	Ser	Arg	Pro	Asp
1				5					10					15	
Gln	Asn	Ser	Asp	Leu	Gln	Ile	Arg	Thr	Val	Ala	Ile	Thr	His	Asp	Gly
			20					25					30		
Tyr	Tyr	Arg	Cys	Ile	Met	Val	Thr	Pro	Asp	Gly	Asn	Phe	His	Arg	Gly
		35					40					45			
Tyr	His	Leu	Gln	Val	Leu	Val	Thr	Pro	Glu	Val	Thr				
	50					55					60				

<210> 38

<211> 60

<212> PRT

<213> Homo sapiens

<400> 38

Glu	Thr	Asn	Cys	Thr	Val	Glu	Arg	Ile	Thr	Trp	Val	Ser	Arg	Pro	Asp
1				5					10					15	
Gln	Asn	Ser	Asp	Leu	Gln	Ile	Arg	Pro	Val	Asp	Thr	Thr	His	Asp	Gly
			20					25					30		
Tyr	Tyr	Arg	Gly	Ile	Val	Val	Thr	Pro	Asp	Gly	Asn	Phe	His	Arg	Gly
		35					40					45			
Tyr	His	Leu	Gln	Val	Leu	Val	Thr	Pro	Glu	Val	Asn				
	50					55					60				

<210> 39

<211> 59

<212> PRT

<213> Mus musculus

<400> 39

Tyr	Phe	Pro	Glu	Lys	Asn	Arg	Ser	Ala	Val	Cys	Glu	Ala	Met	Ala	Gly
1				5					10					15	
Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Ser	Pro	Asp	Gly	Asp	Cys	Val	Thr
		20					25					30			
Thr	Ser	Glu	Ser	His	Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys
	35					40					45				
His	Trp	Glu	Gln	Asn	Asn	Val	Ser	Asp	Val	Ser					
	50					55									

<210> 40

<211> 59

<212> PRT

<213> Rattus rattus

<400> 40

His	Phe	Pro	Gly	Glu	Asn	Arg	Thr	Ala	Val	Cys	Glu	Ala	Ile	Ala	Gly
1				5					10					15	
Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Thr	Pro	Asp	Gly	Asp	Cys	Val	Ala
		20					25					30			
Lys	Asn	Glu	Ser	His	Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys
	35					40					45				
His	Trp	Glu	Gln	Ser	His	Val	Ser	Val	Val	Phe					
	50					55									

<210> 41

<211> 59

<212> PRT

<213> Mus musculus

<400> 41

Tyr	Phe	Leu	Gly	Glu	Asn	Arg	Thr	Ala	Val	Cys	Glu	Ala	Met	Ala	Gly
1				5					10					15	
Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Thr	Pro	Asp	Gly	Asp	Cys	Val	Thr
		20					25					30			
Lys	Ser	Glu	Ser	His	Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys
	35					40					45				
His	Trp	Glu	Gln	Asn	Asn	Val	Ser	Ala	Val	Ser					
	50					55									

<210> 42

<211> 59

<212> PRT

<213> Homo sapiens

<400> 42

Leu	Phe	Gln	Asn	Arg	Asn	Arg	Thr	Ala	Val	Cys	Lys	Ala	Val	Ala	Gly
1			5						10					15	
Lys	Pro	Ala	Ala	His	Ile	Ser	Trp	Ile	Pro	Glu	Gly	Asp	Cys	Ala	Thr
		20					25					30			
Lys	Gln	Glu	Tyr	Trp	Ser	Asn	Gly	Thr	Val	Thr	Val	Lys	Ser	Thr	Cys
	35					40					45				
His	Trp	Glu	Val	His	Asn	Val	Ser	Thr	Val	Thr					
	50					55									

<210> 43

<211> 59

<212> PRT

<213> Homo sapiens

<400> 43

```
Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys Ala Val Thr Gly
 1           5           10           15
Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Ser Ile Leu Ala
          20           25           30
Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr Val Lys Ser Thr
      35           40           45
Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr
 50           55
```

<210> 44

<211> 59

<212> PRT

<213> Mus musculus

<400> 44

```
Cys Ile Val Ser His Leu Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu
 1           5           10           15
Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro Tyr Ile Pro Tyr Ile Ile
          20           25           30
Pro Ser Ile Ile Ile Leu Ile Ile Gly Cys Ile Cys Leu Leu Lys
      35           40           45
Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro Lys
 50           55
```

<210> 45

<211> 60

<212> PRT

<213> Rattus rattus

<400> 45

```
Cys Val Val Ser His Leu Thr Thr Gly Asn Gln Ser Leu Ser Ile Glu
 1           5           10           15
Leu Gly Arg Gly Gly Asp Gln Leu Leu Gly Ser Tyr Ile Gln Tyr Ile
          20           25           30
Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu
      35           40           45
Lys Ile Ser Gly Cys Arg Lys Cys Lys Leu Pro Lys
 50           55           60
```

<210> 46

<211> 52

<212> PRT

<213> Mus musculus

<400> 46

```
Cys Ile Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu
 1           5           10           15
Ser Arg Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr
          20           25           30
Val Lys Met Val Leu Leu Gly Ile Ile Leu Leu Lys Val Gly Phe Ala
      35           40           45
Phe Phe Gln Lys
 50
```

<210> 47

<211> 50

<212> PRT

<213> Homo sapiens

<400> 47

```
Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu
 1          5          10          15
Leu Pro Val Pro Gly Ala Lys Lys Ile Ser Lys Ile Ile Tyr Ser Ile
          20          25          30
Tyr His Pro Tyr Tyr Tyr Tyr Leu Asp His Arg Gly Ile His Leu Val
          35          40          45
Val Glu
          50
```

<210> 48

<211> 55

<212> PRT

<213> Homo sapiens

<400> 48

```
Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu
 1          5          10          15
Asn Ser Gly Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile
          20          25          30
Ile Leu Tyr Val Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr
          35          40          45
Gly Phe Val Phe Phe Gln Arg
          50          55
```

<210> 49

<211> 55

<212> PRT

<213> Mus musculus

<400> 49

```
Leu Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala
 1          5          10          15
Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys Val
          20          25          30
Glu Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys Leu
          35          40          45
Thr Leu Ser Ala Ile Gly Ile
          50          55
```

<210> 50

<211> 55

<212> PRT

<213> Rattus rattus

<400> 50

```
Ser Gly Ala Thr Pro Asp Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala
 1          5          10          15
Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Thr Thr
          20          25          30
Glu Ala His Pro Ala Ser Gln Gly Lys Val Asn Gly Thr Asp Cys Leu
          35          40          45
Thr Leu Ser Ala Met Gly Ile
          50          55
```

<210> 51

<211> 6

<212> PRT

<213> Mus musculus

<400> 51

Arg Asn Val Thr Arg Thr
1 5

<210> 52

<211> 7

<212> PRT

<213> Homo sapiens

<400> 52

Ser Gln Trp Leu Gln Lys Ile
1 5

<210> 53

<211> 8

<212> PRT

<213> Homo sapiens

<400> 53

Ile Asn His Val Arg Lys Val Leu
1 5

<210> 54

<211> 24

<212> PRT

<213> Homo sapiens

<400> 54

Met Gly Gly Lys Gln Met Thr Gln Asn Tyr Ser Thr Ile Phe Ala Glu
1 5 10 15
Gly Asn Ile Ser Gln Pro Val Leu
20

<210> 55

<211> 50

<212> PRT

<213> Mus musculus

<400> 55

Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile
1 5 10 15
Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile
20 25 30
Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser
35 40 45
Val Gln
50

<210> 56

<211> 50

<212> PRT

<213> Homo sapiens

<400> 56

Met Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn
1 5 10 15
Leu Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys

20 25 30
 Thr Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys
 35 40 45
 Thr Val
 50

<210> 57
 <211> 23
 <212> PRT
 <213> Mus musculus

<400> 57
 Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
 1 5 10 15
 Thr Asn Glu Thr Cys Leu Gly
 20

<210> 58
 <211> 49
 <212> PRT
 <213> Mus musculus

<400> 58
 Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu Ile Asn
 1 5 10 15
 Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro Ser Cys
 20 25 30
 Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser Cys Leu
 35 40 45
 Gly

<210> 59
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 59
 Glu Arg Ile Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln
 1 5 10 15
 Ile Arg Pro Val Asp Thr Thr His Asp Gly Tyr Tyr Arg Gly Ile Val
 20 25 30
 Val Thr Pro Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu
 35 40 45
 Val Thr
 50

<210> 60
 <211> 50
 <212> PRT
 <213> Mus musculus

<400> 60
 Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ile Pro Asp Leu Gln
 1 5 10 15
 Ile Ser Ala Val Ala Leu Gln His Glu Gly Asn Tyr Leu Cys Glu Ile
 20 25 30
 Thr Thr Pro Glu Gly Asn Phe His Lys Val Tyr Asp Leu Gln Val Leu
 35 40 45
 Val Pro

<210> 61
 <211> 50
 <212> PRT
 <213> Mus musculus

<400> 61
 Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro Glu Leu Gln
 1 5 10 15
 Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr Cys Glu Ile
 20 25 30
 Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu Gln Val Leu
 35 40 45
 Val Pro
 50

<210> 62
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 62
 Pro Glu Val Asn Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys
 1 5 10 15
 Ala Val Thr Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly
 20 25 30
 Ser Ile Leu Ala Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr
 35 40 45
 Val Lys
 50

<210> 63
 <211> 49
 <212> PRT
 <213> Mus musculus

<400> 63
 Pro Glu Val Thr Tyr Phe Leu Gly Glu Asn Arg Thr Ala Val Cys Glu
 1 5 10 15
 Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly
 20 25 30
 Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val
 35 40 45
 Arg

<210> 64
 <211> 49
 <212> PRT
 <213> Mus musculus

<400> 64
 Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg Thr Ala Val Cys Glu
 1 5 10 15
 Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly
 20 25 30
 Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val
 35 40 45
 Arg

<210> 65
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 65
 Ser Thr Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr Cys His Val
 1 5 10 15
 Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu Asn Ser Gly
 20 25 30
 Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile Ile Leu Tyr
 35 40 45
 Val

<210> 66
 <211> 47
 <212> PRT
 <213> Mus musculus

<400> 66
 Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Ala Val Ser Cys Ile
 1 5 10 15
 Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg
 20 25 30
 Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr Val
 35 40 45

<210> 67
 <211> 47
 <212> PRT
 <213> Mus musculus

<400> 67
 Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Val Val Ser Cys Leu
 1 5 10 15
 Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Gln
 20 25 30
 Gly Thr Met Thr Thr Pro Arg Ser Leu Leu Thr Ile Leu Tyr Val
 35 40 45

<210> 68
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 68
 Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr Gly Phe Val Phe
 1 5 10 15
 Phe Gln Arg Ile Asn His Val Arg Lys Val Leu
 20 25

<210> 69
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 69

Lys Met Val Leu Leu Gly Ile Ile Leu Leu Lys Val Gly Phe Ala Phe
1 5 10 15
Phe Gln Lys Arg Asn Val Thr Arg Thr
20 25

<210> 70

<211> 25

<212> PRT

<213> Mus musculus

<400> 70

Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn Val Gly Phe Ala Phe
1 5 10 15
Phe Gln Lys Arg Asn Phe Ala Arg Thr
20 25